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TREATY REC'D 31 MAY 2005

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PCT/KR2004/002018

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Artcle 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION	See Form PCT/IPEA/416					
International application No.	International filing date(day/month	year) Priority date (day/month/year)					
PCT/KR2004/002018	11 AUGUST 2004 (11.08.2	1					
International Patent Classification (IPC		·					
IPC7 A01K 67/027							
Applicant	•						
AVICORE BIOTECHNOLOGY INSTITUTE INC. et al							
This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.							
. 2. This REPORT consists of a total	of 3sheets, including	g this cover sheet.					
This report is also accompanied by ANNEXES, comprising: a. [(sent to the applicant and to the International Bureau) a total of sheets, as follows:							
sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the							
Administrative		Authority considers contain an amendment that goes					
		as filed, as indicated in item 4 of Box No. I and the					
Supplemental B		- and number of electronic comics(e)					
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the							
Supplemental Box rela	ting to Sequence Listing (see Section	n 802 of the Administrative Instructions).					
	<u> </u>						
4. This report contains indications	-	•					
Box No. I Basis of the	e report						
Box No. II Priority							
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability .							
Box No. IV Lack of unity of invention							
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
Box No. VI Certain d	Box No. VI Certain documents cited						
Box No. VII Certain defects in the international application							
Box No. VIII Certain observations on the international application							
Date of submission of the demand	Date of	f completion of this report					
19 JANUARY 2005	(19.01.2005)	24 MAY 2005 (24.05.2005)					
Name and mailing address of the IPE.	A/KR Author	rized officer					
Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea		LEE, CHUNG HO					
Engine No. 92 42 472-7140		ione No. 82 42-481-8160					

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International aplication No. PCT/KR2004/002018

Box No.	I Basis of the report	-				
1 1172	th regard to the language this report is based on the intermediated and intermediated	lanaman in mhish is a second and a second				
 With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item. 						
\boxtimes	This report is based on translations from the original language into the following language					
	which is the language of a translation furnished for the purposes of:					
	international search (under Rules 12.3 and 23.1(b))					
	públication of the international application (under Rule 12.4)	• • •				
	international preliminary examination (under Rules 55.2 and/or 55.3)					
to th	n regard to the elements of the international application, this report is based on (replie receiving Office in response to an invitation under Article 14 are referred to in this exed to this report): the international application as originally filed/furnished					
	the description:					
	pages received by this Authority on	as originally filed/furnished				
	pages* received by this Authority on					
٠٠. ــــــ						
	the claims:					
	pages as amended (toge	as originally filed/furnished ther with any statment) under Article 19				
•	pages*					
	pages* received by this Authority on					
	Abo American	•				
H	the drawings: pages	as originally filed/furnished				
	pages* received by this Authority on	• •				
	pages* received by this Authority on					
 3.	The amendments have resulted in the cancellation of: the description, pages the claims, Nos. the drawings, sheets the sequence listing (specify): any table(s) related to sequence listing (specify): This report has been established as if (some of) the amendments annexed to this remade, since they have been considered to go beyond the disclosure as filed, as ind (Rule 70.2(c)). the description, pages the claims, Nos.	eport and listed below had not been icated in the Supplemental Box				
	the drawings, sheets					
	the sequence listing (specify):					
	any table(s) related to sequence listing (specify):					
* If iten	n 4 applies, some or all of those sheets may be marked "superseded."					
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International aplication No. PCT/KR2004/002018

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1.	Statement			
	Novelty (N)	Claims	1-15	<u>Y</u> ES
		Claims		No
	Inventive step (IS)	Claims	1-15 ***	YES
		Claims		NO
	Industrial applicability (IA)	Claims	1-15	YES
		Claims		No

2. Citations and explanations (Rule 70.7)

The following documents have been considered for the purpose of this written opinion:

D1: US 6,316,692 B1 (Carol W. Readhead & Rovert Winston), 13 Nov. 2001

D2: P.N.A.S. (Nagano M. et al.), 06 Nov. 2001

D3: WO 03/024199 A2 (AVIGENICS, INC.), 27 Mar. 2003

I. Novelty and Inventive Step

Claims 1-15 of the present invention relate to a method for producing an avian chimera using spermatogonial cells; an avian chimera; and a method for producing a transgenic aves.

Document D1 and D2 disclose transgenic mice produced by male germ-line stem cells; and a method for producing a transgenic mouse. And, D3 provides a method for producing a transgenic avian using sperm-mediated transfection.

Compared with the present invention, none of the above-mentioned prior art documents disclose a method for producing an avian chimera using spermatogonial cells; an avian chimera; and a method for producing a transgenic aves. In addition, the present invention is not considered to be easily invented by a person skilled in the art by using the teachings of D1, D2 and D3.

Therefore, the subject matter of claims 1-15 of the present application comply with the requirements of novelty and inventive step under PCT Article 33(2) and (3).

II. Industrial Applicability

There is no reason for forming a negative opinion about the industrial applicability of this invention. Consequently, claims 1-15 appear to meet the requirement of PCT Article 33(4).